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## Amendments .to the Claims:

Please amend Claims 63, 66, 71, 82, 85, 90, 101, 104 and 109. This listing of claims will replace all prior versions, and listings of claims in the application:

Listing of claims:

0-58 (Canceled)

- 59. (Previously presented): A system for the collection and analysis of computer system capacity data in a partitioned computer system having a computer system first partition and a computer system second partition, the system comprising:
  - a network;
- a partitioned computer system in communication with the network wherein the partitioned computer system includes instructions to execute a method comprising the steps of:
- a) an analysis application running in a computer system second partition obtaining throughput information of a computer system first partition;
- b) the analysis application obtaining resource utilization information of the computer system first partition;
- c) the analysis application calculating a resource control parameter using the resource utilization information obtained and the throughput information obtained; and
- d) providing the resource control parameter to a user agent, the resource control parameter indicating real time resource performance.
- 60. (Previously presented): The system according to claim 59 wherein the resource utilization information comprises CPU utilization.
- 61. (Previously presented): The system according to claim 59 comprising the further step of the user agent displaying at a terminal, the resource control parameter wherein the resource control parameter comprises the throughput information as a function of resource utilization.
- 62. (Canceled)

- 63. (Currently amended): The system according to claim 59 comprising the further step of the user agent displaying at a terminal, the resource control parameter comprising shifted curve fitted throughput information as a function of resource utilization, wherein the shifted curve fitted throughput information is derived from the throughput information obtained.
- 64. (Previously presented): The system according to claim 59 comprising the further step of the user agent displaying as a graph at a terminal the resource control parameter, the display comprising effective utilization versus resource utilization wherein effective utilization derived in the calculating step comprises change in throughput divided by change in resource utilization.
- 65. (Previously presented): The system according to claim 64 comprising the further step of the user agent displaying at a terminal a mark, the mark indicating the utilization at which the effective utilization is half of its maximum.
- 66. (Currently amended): The system according to claim 59 comprising the further step of the user agent using the resource control parameter to manage a workload of adjust resources allocated to the first partition.
- 67. (Previously presented): The system according to claim 66 wherein the using step is performed by a workload manager.
- 68. (Previously presented): The system according to claim 67 wherein the workload manager is in a third partition.

- 69. (Previously presented): The system according to claim 59 comprising the further step of providing the throughput information and the resource utilization information for the calculating step by way of a shared portion of memory, the shared portion of memory programmably accessible to both partitions, the shared memory for transferring information between the computer system first partition and the computer system second partition.
- 70. (Previously presented): The system according to claim 59 comprising the further step of providing the throughput information and the resource utilization information for the calculating step using a single operation memory to memory transfer function.
- 71. (Currently amended): The system according to claim 66 wherein the workload is managed resources allocated to the first partition are adjusted by modifying resources allocated to the first partition.
- 72. (Previously presented): The system according to claim 71 wherein the resources include I/O.
- 73. (Previously presented): The system according to claim 71 wherein the resources include memory.
- 74. (Previously presented): The system according to claim 71 wherein the resources include processors.
- 75. (Previously presented): The system according to claim 66 wherein the workload is managed dynamically.
- 76. (Previously presented): The system according to claim 59 wherein the throughput information comprises network packet counts.

77. (Previously presented): The system according to claim 59 wherein the throughput information comprises an inverse throughput.

- 78. (Previously presented): A computer program product for the collection and analysis of computer system capacity data in a partitioned computer system having a computer system first partition and a computer system second partition, the computer program product comprising:
- a storage medium readable by a processing circuit and storing instructions for execution by a processing circuit for performing a method comprising the steps of:
- a) an analysis application running in a computer system second partition obtaining throughput information of a computer system first partition;
- b) the analysis application obtaining resource utilization information of the computer system first partition;
- c) the analysis application calculating a resource control parameter using the resource utilization information obtained and the throughput information obtained; and
- d) providing the resource control parameter to a user agent, the resource control parameter indicating real time resource performance.
- 79. (Previously presented): The computer program product according to claim 78 wherein the resource utilization information comprises CPU utilization.
- 80. (Previously presented): The computer program product according to claim 78 comprising the further step of the user agent displaying at a terminal, the resource control parameter wherein the resource control parameter comprises the throughput information as a function of resource utilization.
- 81. (Canceled)

82. (Currently amended): The computer program product according to claim 78 comprising the further step of the user agent displaying at a terminal, the resource control parameter comprising shifted curve fitted throughput information as a function of resource utilization, wherein the shifted curve fitted throughput information is derived from the throughput information obtained.

- 83. (Previously presented): The computer program product according to claim 78 comprising the further step of the user agent displaying as a graph at a terminal the resource control parameter, the display comprising effective utilization versus resource utilization wherein effective utilization derived in the calculating step comprises change in throughput divided by change in resource utilization.
- 84. (Previously presented): The computer program product according to claim 83 comprising the further step of the user agent displaying at a terminal a mark, the mark indicating the utilization at which the effective utilization is half of its maximum.
- 85. (Previously presented): The computer program product according to claim 78 comprising the further step of the user agent using the resource control parameter to manage a workload of adjust resources allocated to the first partition.
- 86. (Previously presented): The computer program product according to claim 85 wherein the using step is performed by a workload manager.
- 87. (Previously presented): The computer program product according to claim 86 wherein the workload manager is in a third partition.

88. (Previously presented): The computer program product according to claim 78 comprising the further step of providing the throughput information and the resource utilization information for the calculating step by way of a shared portion of memory, the shared portion of memory programmably accessible to both partitions, the shared memory for transferring information between the computer system first partition and the computer system second partition.

- 89. (Previously presented): The computer program product according to claim 78 comprising the further step of providing the throughput information and the resource utilization information for the calculating step using a single operation memory to memory transfer function.
- 90. (Currently amended): The computer program product according to claim 85 wherein the workload is managed resources allocated to the first partition are adjusted by modifying resources allocated to the first partition.
- 91. (Previously presented): The computer program product according to claim 90 wherein the resources include I/O.
- 92. (Previously presented): The computer program product according to claim 90 wherein the resources include memory.
- 93. (Previously presented): The computer program product according to claim 90 wherein the resources include processors.
- 94. (Previously presented): The computer program product according to claim 85 wherein the workload is managed dynamically.

95. (Previously presented): The computer program product according to claim 78 wherein the throughput information comprises network packet counts.

- 96. (Previously presented): The computer program product according to claim 78 wherein the throughput information comprises an inverse throughput.
- 97. (Previously presented): A computer implemented method for the collection and analysis of computer system capacity data in a partitioned computer system having a computer system first partition and a computer system second partition, the method comprising the steps of:
- a) an analysis application running in a computer system second partition obtaining throughput information of a computer system first partition;
- b) the analysis application obtaining resource utilization information of the computer system first partition;
- c) the analysis application calculating a resource control parameter using the resource utilization information obtained and the throughput information obtained; and
- d) providing the resource control parameter to a user agent, the resource control parameter indicating real time resource performance.
- 98. (Previously presented): The method according to claim 97 wherein the resource utilization information comprises CPU utilization.
- 99. (Previously presented): The method according to claim 97 comprising the further step of the user agent displaying at a terminal, the resource control parameter wherein the resource control parameter comprises the throughput information as a function of resource utilization.

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## 100. (Canceled)

- 101. (Currently amended): The method according to claim 97 comprising the further step of the user agent displaying at a terminal, the resource control parameter comprising shifted curve fitted throughput information as a function of resource utilization, wherein the shifted curve fitted throughput information is derived from the throughput information obtained.
- 102. (Previously presented): The method according to claim 97 comprising the further step of the user agent displaying as a graph at a terminal the resource control parameter, the display comprising effective utilization versus resource utilization wherein effective utilization derived in the calculating step comprises change in throughput divided by the change in resource utilization.
- 103. (Previously presented): The method according to claim 102 comprising the further step of the user agent displaying at a terminal a mark, the mark indicating the utilization at which the effective utilization is half of its maximum.
- 104. (Currently amended): The method according to claim 97 comprising the further step of the user agent using the resource control parameter to manage a workload of adjust resources allocated to the first partition.
- 105. (Previously presented): The method according to claim 104 wherein the using step is performed by a workload manager.
- 106. (Currently amended): The method according to claim  $9\underline{105}$  wherein the workload manager is in a third partition.

- 107. (Previously presented): The method according to claim 97 comprising the further step of providing the throughput information and the resource utilization information for the calculating step by way of a shared portion of memory, the shared portion of memory programmably accessible to both partitions, the shared memory for transferring information between the computer system first partition and the computer system second partition.
- 108. (Previously presented): The method according to claim 98 comprising the further step of providing the throughput information and the resource utilization information for the calculating step using a single operation memory to memory transfer function.
- 109. (Currently amended): The method according to claim 104 wherein the workload is managed resources allocated to the first partition are adjusted by modifying resources allocated to the first partition.
- 110. (Previously presented): The method according to claim 109 wherein the resources include I/O.
- 111. (Previously presented): The method according to claim 109 wherein the resources include memory.
- 112. (Previously presented): A method according to claim 109 wherein the resources include processors.
- 113. (Previously presented): A method according to claim 104 wherein the workload is managed dynamically.
- 114. (Previously presented): A method according to claim 97 wherein the throughput information comprises network packet counts.

- 115. (Previously presented): A method according to claim 97 wherein the throughput information comprises an inverse throughput.
- 116. (Previously presented): The system according to claim 59 wherein the throughput information obtained comprises a network packet activity comprising a count of packets in and out of the system during an interval of time, wherein further the resource utilization obtained comprises CPU utilization during the interval of time, wherein the resource control parameter calculated comprises a representation of a relationship between the throughput information obtained and the resource utilization obtained.
- 117. (Previously presented): The system according to claim 116 comprising the further step of providing any one of the throughput information or the resource utilization information for the calculating step by way of a shared portion of memory, the shared portion of memory programmably accessible to both partitions, the shared memory for transferring information between the computer system first partition and the computer system second partition.

118. (Previously presented): The computer program product according to claim 78 wherein the throughput information obtained comprises a network packet activity comprising a count of packets in and out of the system during an interval of time, wherein further the resource utilization obtained comprises CPU utilization during the interval of time, wherein the resource control parameter calculated comprises a representation of a relationship between the throughput information obtained and the resource utilization obtained.

- 119. (Previously presented): The computer program product according to claim 118 comprising the further step of providing any one of the throughput information or the resource utilization information for the calculating step by way of a shared portion of memory, the shared portion of memory programmably accessible to both partitions, the shared memory for transferring information between the computer system first partition and the computer system second partition.
- 120. (Previously presented): The method according to claim 97 wherein the throughput information obtained comprises a network packet activity comprising a count of packets in and out of the system during an interval of time, wherein further the resource utilization obtained comprises CPU utilization during the interval of time, wherein the resource control parameter calculated comprises a relationship between the throughput information obtained and the resource utilization obtained.
- 121. (Previously presented): The method according to claim 120 comprising the further step of providing any one of the throughput information or the resource utilization information for the calculating step by way of a shared portion of memory, the shared portion of memory programmably accessible to both partitions, the shared memory for transferring information between the computer system first partition and the computer system second partition.